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ABSTRACT

Examining the flow of students between the credit and noncredit programs at the City College of San Francisco (CCSF), in California, this report analyzes the patterns of student enrollment, attendance, persistence, and transition between programs from fall 1984 to fall 1994. Following a brief introduction and a discussion of terminology and trends at CCSF over the 10-year period, the report provides data on unduplicated enrollment, attendance, and full-time equivalent student enrollments in credit and noncredit programs. Next, data are presented on the flow of enrolled noncredit students to credit programs and vice versa, the persistence of enrolled noncredit and credit students into either noncredit or credit programs, the flow of students actually attending noncredit programs to credit programs and vice versa, and the persistence of students attending credit and noncredit programs. Highlighted findings include the following: (1) of the 123,000 students enrolling in at least 1 course during the last 5 years, 23% attended a noncredit program; (2) from 1984 to 1994, there was a 54% increase in the number of students moving from noncredit to credit programs, despite a 22% decline in the number of noncredit students served; and (3) the number of students taking advantage of both noncredit and credit offerings simultaneously increased 20% over the period. (TGI)



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FLOW ANALYSIS

CITY COLLEGE OF SAN FRANCISCO STUDENTS: P

SIMULTANEOUS ENROLLMENT NONCREDIT TO CREDIT

CREDIT TO NONCREDIT

Leslie Plato Smith Spring 1996

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Flow Analysis of Students at City College of San Francisco

INTRODUCTION

The purpose of this article is to discuss the flow of students between the crec't and noncredit programs at City College of San Francisco (CCSF). Major findings on the movement of students from noncredit to credit, credit to noncredit and simultaneous enrollment in both عطائا عمل noncredit programs will be analyzed with respect to the general student population, as well as program specific populations at City College.

students access and flow between the credit and noncredit programs. This data provides important information, not only for The information contained in this study, represents the first major longitudinal examination of the patterns to which internal planning purposes, but as a model of the type of accountability that can be provided regarding the success of noncredit programs.

needs of the students and City College, that neither program is isolated from the other, and that both work together to fulfill the increased competition at the state level for limited dollars directed to public education. This study documents the extent that students access and transition between the credit and noncredit programs, indicating that both programs are critical to the This data is especially important in light of proposed federal block granting o`workforce development funds, and mission of City College.

DEFINITIONS AND ASSUMPTIONS

numerical unit. All numbers are unduplicated within a program, but duplicated between programs. That is, for programmatic data a student is counted once in each program for each program that that student is enrolled. However, for district data, semester. All numbers in this report refer to individual students, not the number of seats or another artificial, calculated This study encompasses ten years of data, starting with the fall of 1984 semester and ending with the fall 1994 each student is only counted once.

All data in this report comes from the Integrated Student Information System (ISIS) data files of CCSF.

INSTITUTIONAL HISTORY

This ten year period was a time of intense study of the California Community Colleges. A special commission was

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legislature, resulting in reform legislation. These sweeping reforms changed the financial, governance and staffing structure established to review the Master Plan for Higher Educatior.. The resulting report led to further study in the California of the community colleges, as well as reaffirmed the broad nature of the mission of this segment of higher education.

During this time, all credit and noncredit courses were reviewed under new Title V regulations. As a result of this study, many courses at CCSF were converted from noncredit to credit, accounting for some of the increase in the size of the credit program and commensurate decrease in the noncredit program.

In the spring of 1993, this reform period was followed by a nearly threefold increase in the per unit fees to all credit

students, and a nearly ninefold increase to students already possessing a baccalaureate degree. This resulted in the loss of nearly half of the students with baccalaureates and an 8% drop of all students between Fall of 1992 and Spring of 1993.

While funding at CCSF remained relatively flat during this 10-year period, CCSF saw dramatic organizational changes. programs had fluctuated modestly with respect to the credit program, based upon changes in student needs. However, after Since its formation as the San Francisco Community College District in 1972, proportion of students attending the noncredit City College's 10-year accreditation self-study in 1988 and the completion of the Title V course review, major credit and noncredit programmatic changes began to occur.

integration of the credit and noncredit programs into disciplined-based departments across the entire district, for the first time. At this time many courses were reclassified from noncredit to credit, with Licensed Vocational Nursing leading the way in the English as a Second Language and the Automotive departments. This integration of credit and noncredit into departments, spring of 1991. Major conversions of courses from noncredit to credit occurred in the fall of 1991, most specifically in the In the fall of 1990, major administrative and organizational reengineering began. This lead to the full functional as well as other departmental redefinitions, continued to occur for the next several semesters.

ENROLLMENT

noncredit do not add together to make the total because many students enroll in both credit and noncredit, and each student The total enrollment is unduplicated enrollment for each semester at City College of San Francisco. Therefore credit plus Table 1 shows the unduplicated enrollment at City College for every fall and spring semester since the fall of 1984. is only counted once.

completion and implementation of most course conversions from noncredit to credit. As expected, noncredit peaked from the beginning of a period of programmatic reorganization at CCSF with courses in the noncredit program just starting to convert As can be seen from this chart, total college enrollment peaked in the spring and fall 1991 semesters. This was the to credit. Credit enrollment peaked during the fall 1991 and the spring 1992 semesters, immediately following the

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spring of 1989 to the spring of 1991 before these conversions took place.

Unduplicated Enrollment at City College of San Francisco

Therefore, the larger the credit program, the lower the total number of students needed to reach cap. Third, the difference in continue enrolling throughout the semester, leading to a larger number of total students served. Therefore, in times of stable years the number of credit students has increased while the number of noncredit students has decreased. This is expected credit students. However, overall total college enrollment has declined. This basically is a function three characteristics of the nature of how FTES is calculated for credit and noncredit programs significantly impacts the overall enrollment figures. since there have been substantial conversions of noncredit courses to credit, which would serve to increase the number of Table 2 makes it much easier to see the pattern of changes in enrollment over time. It is clear that over the last ten the funding structure of California community colleges. First, under program-based funding, districts have a revenue cap census. However, noncredit courses are reimbursed on a daily attendance basis, so that students are encouraged to rather than an enrollment cap. Second, districts receive a lower rate of reimbursement for FTES earned in noncredit. Because credit courses are usually semester long programs, state reimbursement is based on enrollment, known as

fees, the index shows a 25% drop in enrollment from the high in spring of 1992 to the fall of 1994 in the credit program. Most While the 2,000 student drop in credit enrollment between Fall of 1992 to Spring of 1993 is probably due to increased of this decline is due to reduction in the number of course offerings in every department that has occurred beginning in the funding, conversion of noncredit courses to credit will result in a lowering of the number of students enrolled.

However, the index clearly shows a trend of increasing credit students regardless of course conversions.

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Table 2 Enrollment Index of City College of San Francisco Fall 1984 = 100

5'94 F'94 123.0 120.3 81.7 72.8 94.9 88.3 5'93 F'93 129.6 124.0 88.1 85.7 101.4 97.5 F92 137.9 86.8 103.2 5'92 144.9 94.3 110.9 F91 143.4 163.9 16.4 591 133.6 107.6 116.2 F90 125.9 106.2 112.8 5.90 127.1 110.8 116.3 F89 124.2 108.5 113.7 5.89 120.6 111.7 114.9 F88 115.1 106.2 109.3 5.88 116.3 103.6 108.0 F8Z 111.4 102.9 105.7 5.87 109.5 107.8 108.2 F.86 S 104.5 106.0 105.6 5.86 106.9 109.2 108.4 285 84.4 102.8 96.7 뛒등등등 Credit Noncredit Total

Table 3 shows that like total college enrollment, the total number of students simultaneously enrolling in both the credit and noncredit programs peaked between the spring of 1991 and the fall of 1992. Although this was a period of intense programmatic and administrative flux, the students continued to access the courses they needed.

Simultaneous Enrollment in Credit and Noncredit Programs Enrollment at City College of San Francisco Table 3

15 15 15 15 518 325 § § E 22 ≌ 23.88 딢혈 55 55 56 56 55 55 55 <mark>潊</mark>춘 15.6 15.6 SE SE **8** 8 8 E85 83.₹ 줥蓬

credit and noncredit programmatic offerings simultaneously. This data demonstrates that while the total number of students Table 4 shows the percent of all students enrolled in City College of San Francisco who take advantage of both the organized by disciplines in departments. This suggests that this reorganization has been beneficial to students and the students have taken advantage of the opportunity to enroll in both credit and noncredit programs since they have been simultaneously has remained consistently higher after conversion and reorganization. In fact, almost one-third more peaked between the spring of 1991 and the fall of 1992, the actual percentage of students accessing both programs

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institution by better meeting the educational needs of credit or noncredit students, and removing the artificial barriers that existed between the two programs before integration of credit and noncredit into discipline based departments.

Table 4
Percent of Total College Enrollment Accounted for by Simultaneous Enrollment

95	2.5%
3	2.7%
26.7	2.8%
25	2.7%
55	2.8%
2.67	2.4%
吾	2.7%
2.5	2.2%
3	2.1%
2.30	2.1%
2	2.1%
8	1.9%
88	2.0%
88	2.0%
[.87	2.1%
2.87	2.2%
5	2.1%
2.88	2.2%
2	2.0%
X3	2.1%
3	2.1%
	Percent

ATTENDANCE

Noncredit attendance, like noncredit enrollment, peaked between spring of 1989 and spring of 1991, before implementation College, therefore, as expected total college attendance peaked between the spring of 1990 and the spring of 1992. Credit attendance, like enrollment peaked from fall of 1991 to spring of 1992, as expected after conversion and reorganization. The number of students attending City College is basically a function of the number of students enrolling at City of reorganization by department and conversion of courses from credit to noncredit.

Table .5	Induplicated Attendance at City College of San Francisco
	Undu

	ē
F.94	24022 34253 57145
5.94	24816 38012 61499
[.67	24870 37432 51042
2.63	25704 39940 34238
F.92	27500 39561 65573
2.37	28454 11895 38982
E31	27952 2 44844 4 71332 6
7.67	26033 48537 73262
F.90	24715 47358 70861
2.30	24673 50132 73581
F.89	24233 48570 71606
2.83	22986 50901 72814
F.88	22569 47821 69321
2.88	22641 47170 68767
F.87	22135 46432 67434
2.87	22490 50220 71407
98	21490 48978 69340
2.86	21653 49046 69554
283	20748 45259 65006
2.85	20876 45935 65667
<u>8</u>	20506 ii 43839 63280
	Credit Noncredit Total

Table 6 shows how attendance has changed over the last ten years. Credit attendance is up 17% from ten years ago,

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while noncredit attendance is down 22% over the same time periods. This leads to an overall drop in the number of students

Also of interest is how the proportion of the institution's programs offered in credit and noncredit has changed over time. In 1984 the credit program accounted for 34% of the students enrolled and 32% of those attending. During the next six years, until the fall of 1990, this proportion of enrollment and attendance accounted for by credit students continued to increase until it was 38% and 35% respectively. This represents a 12% increase in the proportion of enrollment that is accounted for by

However, the change in the proportion accounted for by credit enrollment between the fall of 1990 and the spring of 1992, when conversion occurred, is much more dramatic. In the spring of 1992, 45% of the total coilege enrollment was accounted for by credit students, an increase of 12% in slightly more than one year.

The proportion of students attending credit programs experienced the same type of dramatic jump between fall 1990 increase of 10% in slightly more than <u>one</u> year. For the previous six years, the rate of increase annually was 1.5%. Again and spring 1992. In the spring of 1992, 39% of the students attending City College were enrolled in credit programs, an most of this dramatic increase is due to the conversion of noncredit programs to credit in areas such as allied health,

Attendance Index of City College of San Francisco Fall 1984 = 100 Table 6

	5.94 F.94	121.0 117.1 86.7 78.1 97.2 90.3
;		121.3 85.4 96.5
ç	3	125.3 91.1 101.5
5	7	134.1 90.2 103.6
60.5	77.7	138.8 1 95.6 09.0 1
	7	136.3 1, 102.3 9 112.7 10
10.5	j	127.0 107.6 115.8
F'90	1	120.5 108.01 112.0
2.30		120.3 114.4 116.3
683		118.2 110.8 113.2
2.83		112.1 116.1 115.1
F.88		100.1 109.1 109.5
2.88	•	107.6 108.7
F.87	1070	105.9 105.9 106.6
2.87	100 7	114.6
98.	104 8	111.7
2.86	105.6	111.9
F.85	101.2	103.2
2,82	101.8	104.8 103.8
F.8	100	100 100
	Credit	Noncredit Total

truncated and thus the ratios for credit and total enrollment for this particular semester should be ignored. Over time this ratio number of students who enroll. As mentioned before, the student enrollment file for the spring of 1985 semester has been Table 7 shows the ratio between the number of students who actually attend City College of San Francisco to the



has been relatively constant like all enrollment and attendance figures for City College of San Francisco.

This ratio is about double for credit, between 15% to 21%, to that for noncredit, between 3% to 11%. However, while the ratio About 10% of the students who enroll in the college, drop out or withdraw completely or never attend a noncredit course. for credit has decreased slightly, 2% in ten years, for noncredit is has increased, 6% in ten years.

during this time period. Since matriculation intervenes in the period between enrollment and attendance, it is possible that The reasons for these changes can only be surmised. Matriculation for credit students has been the major change this procedure is the cause of the change in this ratio.

changes have been to both make enrollment procedures easier and to counsel students before they enroll in a course. It is During this same time period, a substantial amount of work has been done on noncredit enrollment procedures. The again possible that these changes are responsible for the improvement in the ratio between the number of students who enroll and the number of students who attend.

Since enrollment costs the college and the college is reimbursed for attendance, the causes of these changes in these ratios are important for the institution.

Table 7 Ratio of Attenders to Enrollers at City College of San Francisco

													•									
	F.8	2.85	F.85	9 8.S	F.86	2.87	F.87	2.88	88.	S.89	F.89	06.S	6.3	S.91	16.3	26.5	6.47	7.01	.0.1	70.5	, a	
Credit	0.85	1.02	0.85	0.84	0.85	0.85	0.82	0.81	0.81	0.79	0.81	0.80	0.81	0.81	0.81	0.81	0.83	250	58.0	£ 6	ž. č	
Noncredit	0.91	0.92	0.92	0.93	96.0	96.0	0.93	0.94	0.93	0.94	0.93	0 04	040	0.03	080			7 6	60.0	FO.0	0.00	
Total	0.89	96.0	0.30	0.90	0.92	0.93	0.30	0.30	0.89	0.89	80	0 80	680	6.0	60.0	76.0	\$	P. 0.94	6.9	0.96	0.97	
											2	3	3	60.0	0.00	80.5	25.0	Z	æ	5	-00	

number of students attending both credit and noncredit programs programs peaks beginning in fall 1991, coinciding with the Table 8 shows the number of students who are attending both credit and noncredit programs at the same time. The course conversions and the integration of noncredit and credit into departments by disciplines. Furthermore, this number stays high until the fall of 1994. In this ten year period, while overall the number of students attending City College has

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declined by 10%, the number attending credit and noncredit programs simultaneously has increased 6%. If fall semester of 1994 is excluded, the percent increase is 25%, while the overall drop in the number of students attending is 3%

These statistics indicate that course conversion and integration of noncredit and credit into departments by disciplines have indeed broken down institutional barriers and that students are petter accessing both credit and noncredit programs according to their educational needs.

Table 8

Simultaneous Attendance by Students in Credit and Noncredit Programs at City College of San Francisco

simultaneously. From 1984 until course conversion in 1991 this percentage stayed almost constant at 1.7%. However, after Table 9 shows the percentage of the number of total students who attend both credit and noncredit programs conversion this percentage jumps by one-third to 2.3%.

Once again, it appears that students are increasingly selecting a credit or noncredit program based on their educational needs, rather than being defined or categorized as a credit or noncredit student.

Table 9

Percent of Total College Attendance Accounted for by Simultaneous Attendance in Credit and Noncredit Programs by Students

2.0% .94 2.7% 2.1% 3 2.7% 2.63 2.3% F.92 2.0% 2.33 2.1% 5 1.8% 2.5 1.7% 8 1.7% 260 1.7% 83 1.5% 88 1.5% 88 1.5% 2.88 1.7% 28 1.8% 2.83 1.6% 88 .6 98.5 22 82 1.7% 83 1.7% 8 Percent

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FULL-TIME STUDENT EQUIVALENT (FTES)

Table 10 shows how funded FTES has been distributed between credit and noncredit programs and over the last ten years. While credit FTES increased 14% between the fall of 1984 and the fall of 1994, noncredit decreased 3% over this same time period. The total college increased 6.5% over this ten year period, or at an average rate of .65% per year.

Colleges total FTES. This percentage peaked in the fall of 1992, after conversion, at 61%, and is currently, fall 1994, at 60% of Once again, the credit program was largest in all of 1992, with FTES peaking at 28% higher than the baseline of fall 1984 and 13% higher than the end of the study period, fall 1994. In 1984, the credit program accounted for 56% of the the total college FTES.

increase over the baseline level in fall of 1984. Since that peak in 1991, the size of the noncredit program has declined by The noncredit program peaked in terms of absolute size during the spring 1991 semester, representing a 25% 22% It is important to note that the analysis of FTES is based only on the fall and spring semesters. Funding, however is based on an annual figure and City College of San Francisco has been increasing the size of its summer school offerings in the last few years.

. Funded FTES of City College of San Francisco

			2
5	9326	6196	15522
S.	9713	6/9	16512
5	9710	6644	16354
2.57	8017	7094	15111
F92,	10513	6731	17244
2.82	10354	7163	17517
5	10193	6913	17106
EZ EZ	9380	7161	17357
3	9203	7425	16628
85 85	900	7760	16764
2	8983	7021	16004
88.7	8278	7587	16165
23	8469	1111	15646
88.3	8349	7374	15723
E.87	8283	7000	15283
2.87	8051	7556	15607
8	8001	7217	15218
88 .	8146	7565	15711
<u>8</u>	7934	1267	15201
XX	8302	6669	15301
8	8201	6379	14580
	Credit	Noncredit	Total

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FLOW OF STUDENTS

programs, 2) from programs credit to credit and noncredit programs, and 3) from both noncredit and credit programs to either credit or noncredit programs. The difference in patterns between enrolled students versus student attenders will also be The next several sections will discuss the flow of students: 1) from noncredit programs to credit and noncredit

enrolled in a particular program two semesters later. And "Total year" refers to the unduplicated total number of students who enrolled in a particular program either the next semester or the second semester, that is to say within one year. For example, enrolled in credit programs the fall of 1985. And the number of students listed under fall 1984 for "Total year" (2002) refers to in Table 11, the number of students listed under fall 1984 for "Semester 1" (1338) refers to the number of students enrolled under fall 1984 for "Semester 2" (1534) refers to the number of students enrolled in noncredit programs in fall 1984 who also In order to understand the following tables, it is necessary to give some definitions. "Semester 1" refers to number of the unduplicated number of students enrolled in noncredit programs in fall 1984 who also enrolled in credit programs either in noncredit programs in fall 1984 who also enrolled in credit programs the spring of 1985. The number of students listed students who enrolled in a particular program the next semester. "Semester 2" refers to the number of students who or both the spring or the fall semesters of 1985.

It should be noted that in this study by definition, the students who are simultaneously enrolled in both credit and noncredit are counted both in the credit and noncredit numbers.

FLOW OF ENROLLED NONCREDIT STUDENTS

noncredit students decreased after that semester (Tables 5 and 6), so the pool upon which to draw upon decreased. Second, noncredit programs to meet their educational needs. Therefore, at the end of ten years, the total number of students flowing The number of noncredit students who enrolled in the credit program the following semester increased steadily from fall of 1984 until peaking in the spring of 1991 at 3189, representing an increase of 138%. After this semester there was a from noncredit to credit each semester only increased by 54%, still a substantial and important increase by any measure. with the conversion of noncredit courses to credit the following semester, many students no longer have to first enroll in Furthermore, by holding the size of the enrollment constant, the rate of flow of noncredit students by the next semester decline in the number of noncredit students flowing from noncredit to credit for two reasons. First, the total number of

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doubles from 2.8% of the noncredit population to 5.2% of the noncredit population betwد المراهبة 1984 and 1994, and nearly triples in the spring of 1991.

number of fall 1984 students (1535) who enrolled in credit programs the fall of 1985. For the reasons stated above by spring annual growth rate of nearly 4%. However, holding enrollment constant there is in fact a two-thirds increase between 1984 1994 (the last semester for which annual data is available), the increase in this number over fall 1984 was 37%, an average The number of noncredit students who enrolled in the credit program the following year also peaked in the spring of 1991. The 3256 students who were enrolled in credit programs the spring of 1992 represent a 112% increase over the and 1994 in the number of students who enroll in credit programs one year after enrolling in noncredit, providing for an average annual growth rate of almost 7%.

again peaks in spring of 1991 as would be expected at 4175, representing an increase of 109% over fall of 1984. Holding Looking at all the noncredit students who enrolled in credit programs anytime within one year, the absolute number enrollment constant this number has increased again by nearly two-thirds in ten years.

Table 11 Enrolled Students Flow from Noncredil to Credit

E3 5:34 E34	2118 2055 1724	2252 2099 n/o	2982 2657 11/0
2.6	2302	2380	3028
F.37	2163	2429	3167
2.37	2644	2992	3431
5	2601	3048	3922
15.5	3189	3256	4175
5	2200	3248	3994
2.30	2180	2487	3109
[.83	2081	2303	3064
2.83	2113	2317	3005
8	1915	2297	3001
2,000	1934	2103	2694
78.	1892	2114	2853
78.5	2080	2312	2942
2	1955	2097	2939
2.86	1998	2228	2848
<u>8</u>	1837	2005	2741
2.85	1797	2038	2565
2	1338	1535	2002
	semester 1	semester 2 1535	Total year

year. While this number may seem low, it compares favorably with the 10% of the noncredit students who declare attaining semesters. Once again, spring 1991 is the peak with 8% of noncredit students enrolling in credit programs within the next Table 12 shows the percent of noncredit students who enroll in credit programs in one or both of the following two either a baccalaureate or an associate degree to be their goal (SIQ, 1993).



conditions only one-fourth of all students should be ready to move on each semester. That is to say only 25% of the students However, to fully understand the importance and substance of this 8% it is necessary to understand the nature of City noncredit students are working and only 18% state they are full-time students this time line must be expanded to be realistic. Holding to the ideal of two years, 8% of the students who actually en oll in credit within one year, represents an incredible 32% of the eligible 25% of noncredit students. However, since according to the 1993 SIQ, 37% of noncredit students are are expected to graduate or finish their education in any semester. However, since according to the 1993 SIQ, 37% of College of San Francisco. First, City College of San Francisco is a two-year institution, therefore, in the most ideal of

This study is also very conservative in its very nature because it is only examining the students who flow from noncredit to credit within one year. Most studies of this nature give a much longer period for the student to move. Therefore, the actual number of students from any given semester who actually enroll in credit is probably much larger over an extended period of working and only 18% state they are full-time students this time line must be expanded to be realistic.

Percent of Noncredit Enrolled Students Who Flow from Noncredit to Credit as

The second as a Percent of Enrolled Noncredit Students	70.J P0.S	5.2 4.9 5.3 n/o 6.7 n/o
	F.93	5.1 5.5 7.2
Voncre	2.62	5.4 5.6 7.1
rolled	F.92	5.2 5.8 7.6
of En	2.37	5.8 5.8 7.5
ercent	63	5.2 6.1 7.8
OS O +	183	6.1 8.3
	3	4.3 6.3 7.8
<u> </u>	2.30	4.1 5.8 5.8
	<u>8</u>	4.4.8
	83 ×	5.4 5.6 6
į	8 2	5.8 5.8
06.0	g 55	5.4
F.87	8 9	5.7
2.87	4	5.6
83	3.8	5.7
3 2	3.8	5.4
53	3.7	5.6
2.85	3.6	5.2
2	1 2.8 2 3.2	.
	% Semester 1 % Semester 2	oldi yedi

before. That is, even if they have attended the noncredit program prior to enrolling in the credit program, they are considered a interesting issues regarding this sourcing. First, first time freshmen are defined as never having attended the credit program San Francisco High Schools, both public and private were the source of 1871, 1640 and 1056 first time freshmen for comparison between these figures for first time freshmen coming from San Francisco high schools and the figures in this the fall terms of 1992, 1993 and 1994, respectively, according to the ICN 44-Census Week Report. There are several first time freshman. Second, the year of graduation from that high school is irrelevant. For these two reasons a direct

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report for noncredit students cannot be directly compared. However, it terms of magnitude, in any given semester, a larger number of credit students attended the noncredit program the prior semester than came from any high school in San Again when examining the impact of noncredit students as a source of credit students it must be remembered that this one-quarter of all students is the targeted figure for new students in any given semester. And as discussed before, two years Second, when examining these figures, it must be remembered that City College is a two-year institution, and therefore only is also probably a very conservative length of time for an urban student to complete their education, so 25% is probably an study is very conservative in that it only allows students one year to get to credit after enrolling in a noncredit program. unrealistically high expectation.

student flow to remember that spring of 1991 was the semester that preceded the implementation of the course conversions, It is again apparent that spring of 1991 represents a peak for the number of students moving from noncredit to credit both in absolute terms and as a percentage of the total number. It is also critical to the understanding of the pattern of as well as the integration of both the credit and noncredit programs into discipline-based departments.

Percent of Noncredit Enrolled Students Who Flow from Noncredit to Credit as a Percent of all Enrolled Credit Students Table 13

*	, , , , , ,
76.3	o.i ⊷.
S:94	,
£.33	7.1 7.5 10
293	7.4
25	6.5 7.3 9.5
26.5	7.6 7.6 9.8
喜	7.5 8.8 11.3
153	9.9 10.1 12.9
3	7.2 10.7 13.1
% %	7.1 8.1 10.1
F.83	6.9 7.7 10.2
2.83	7.3 8 10.3
8	6.9 8.3 10.8
88,	6.9 7.5 9.6
F.87	7 7.9 10.6
797	7.9 8.8 11.1
8	7.8 8.3 11.7
98.5	7.7 8.6 11
F.85	7.5 8.2 11.2
2.85	8.8 10 12.6
84	5.5 6.4 8.3
-	X Semester 1 X Semester 2 X Total year

only 75% of the students are expected to continue. In addition, noncredit is specifically designed to meet the needs of adult students who may not be able to continue semester to semester without a break because of obligations in their lives, so that semester in noncredit programs. To understand these numbers, it must be pointed out that in the two-year college model, Tables 14 and 15 show the absolute numbers as well as the percentage of noncredit students that enroll the next 75% is unrealistically high

Persistence between semesters has increased by 55% in the last ten years, or at an average rate of 5.5% per year.

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two trends is the very mobile nature of the noncredit population which is largely immigrant. A second possible reason is that Persistence into the second semester has remained relatively flat. A possible suggestion for the difference between these students may have accomplished their education goals after just two semesters. Nevertheless, the significant differences as flow to credit increases, then, as a result, the persistence is noncredit will decrease. A third is that many noncredit between the patterns of persistence between "Semester 1" and "Semester 2" bears further investigation.

Table 14 Enrolled Students Flow from Noncredit

_		<u>:</u>	
1.0		2	2 4
2.64	18907	12851	10824
.93	23082	15605	245.46
2.63	23102	16735	24785
25	24974	18668	56796
2.37	22588	18249	24421
F.3	26467	18453	28643
16.5	25919	19813	28088
3	28639	20789	30900
S.50	25713	20654	28265
82	28193	20217	30711
2.83	25398	20018	28175
88	27794	19875	30150
XX	23848	19026	26466
F.87	26417	19417	28858
2.87	24052	19081	26566
E.88	26061	18574	28507
588	23163	18523	26109
283	25722	18134	28477
2.85	21342	17470	24517
7.8	17519	12889	19398
	Semester 1 17519	Semester 2 12889	Total year

Toble 15

47.9 50.6 32.6 n/o 50.2 n/a Percent of Noncredit Enrolled Students Who Flow from Noncredit to Noncredit as a Percent of all Enrolled Noncredit Students 5 50 56 37.9 59.6 6 54.2 39.3 58.7 23 59.5 44.5 63.9 25 49.6 40 2.63 52.7 36.7 5 49.8 38.± 2.61 55.8 40.5 9 38.5 38.5 8 53.8 38.6 58.6 2 47 37.1 83 38.7 38.7 88.8 88 ₹.8 83.6 52.9 88 23. 52 24. 52. 52. F.87 46.2 36.6 2.87 36.3 36.3 55.6 8 43.9 35.1 49.4 2.86 52.1 36.7 57.7 83 43 35.2 49.4 Z. % Semester 1 36.2 % Semester 2 26.7 7 Total year 40.1 8

Tables 16 and 17 present a summary of the flow of noncredit students over the following two semesters. Here the

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conversion period. A persistence rate of 64% is only 11% short of a perfect model of persistence, not a realistic measure for have been quite effective, as the numbers under F'92 reflect the students' persistence into 1993, two years after the initial peaking of persistence occurs in the fall 1992 semester. This indicates that the changes in conversion and restructuring noncredit programs nor for urban colleges.

It is important to remember that data on these tables after fall of 1993 is not 100% complete since these numbers are affected in the case of fall 1993 by fall 1994 data which is incomplete and in the case of spring 1994 by fall 1994 and spring 1995, both of which are incomplete. Therefore, no conclusions should yet be drawn on changes in trends based solely on data from these two semesters.

noncredit or completed a course in the case of credit. Therefore, given the very conservative nature of these definitions, the persistence rate between semesters for students from the noncredit program should be viewed as an outstanding success. Furthermore, these are enrollment numbers, not numbers of students who actually attended a class in the case of

Table 16 Enrolled Students Flow from Noncredit to Noncredit or Credit

-	46	_	_
76.3	18946	u/a	D/U
5.34	20288	14501	21344
3	24288	17289	25863
2.63	24379	18347	26155
26.7	26176	20235	28120
2.33	24267	20146	26154
<u> </u>	28147	20690	30513
153	27995	22297	30367
C.30	29960	23071	32506
23	27178	22487	29937
2	29457	21908	32128
2,3	26798	21726	29790
2	29010	21554	31612
233	25139	20594	27931
78.3	27617	20702	30272
787	25523	20826	28294
88	27267	20132	29913
2.86	24534	20193	27684
8	26902	19609	29796
2.85	22893	19015	25956
F.84	emester 1 18337	emester 2 14031	Total year 20381
F.84	Semester 1 18337	Semester 2 14031	

Table 17

Percent of Noncredit Enrolled Students Who Flow from Noncredit to Noncredit or Credit as a Percent of all Enrolled Students

4	2.0,5
F.34	30.1 30.2 21.5 n/s 31.7 n/s
2.34	822
55	35.1 25 37.4
2.53	33.9 25.5 36.3
[.32	35.8 27.6 38.4
2.63	30.8 25.6 33.2
3	34.1 25.1 36.9
2.31	34 27 36.8
9	37.4 28.8 40.6
230	32.9 27.2 36.3
88	36.5 27.1 39.8
2.83	32.9 26.6 36.5
88	37.4 27.8 40.8
2.88	32.8 26.9 36.4
F.87	36.8 27.6 40.3
787.5	33.2 27.1 36.8
188	36.4 26.9 39.9
2,86	31.9 26.3 36
583	37.2 27.1 41.2
2.85	33.4 27.7 37.8
£3 83	25.8 19.8 28.7
	% Semester 1 % Semester 2 % Total year



FLOW OF ENROLLED CREDIT STUDENTS

because 1) that is the way many programs are designed and 2) transfer to a four-year college or university is most frequent in Examination of the persistence rates between semesters from a credit to a credit program reflects the traditional fall to persistence between spring and fall. This reflects the fact that many more students finish their course of study in spring spring enrollment pattern, with persistence between fall and spring being about 10 percentage points higher than the fail semester.

There has been a 23% increase in the last ten years in the persistence level between fall and spring semesters, or an average annual rate of 2.3%. Persistence rates for one year have improved 12% for the same period, half the rate the one semester rate. Fall 1993 are almost exactly on target at 72% with 75% the model.

Table 18 Enrolled Students Flow from Credit to Credit

7. 7.	2.85	283	2.86	£.86	28.5	E.87	27.88	£88	2.83	2	2.30	8	16.5	5.	26.3	F.32	2.62	F.33	5.34	F.34
Semester 1 13483	13152	15788	13632	16070	14089	17152	14985	17802	15819	18890	16970	19881	18424	22636	20350	21833	19190	20636	18014	20245
Semester 2 10766	10788	10971	11008	11476	11566	12105	12301	12822	12874	13790	14015	14863	15172	16608	16075	16175	15519	15192	14879	0/u
Total year 14395	14264	16706	14796	17120	15329	18243	16360	19003	17214	20268	18485	21279	19906	23846	21595	22891	20179	21652	18974	D/U

Percent of Credit Enrolled Students Who Flow from Credit to Credit as a Percent of Credit Students Table 19

35	3 69 1 n/0 9 n/0
5.34	61.3 50.1 63.9
3	65.6 50.8 72.3
26.2	58.2 49.6 64.5
[.37	65.4 48.6 68.8
2.37	57.1 46 61.8
<u> </u>	65.4 46 68.9
22	57.1 47 61.7
8	65.4 48.9 70.1
2.30	55.3 45.7 60.3
68,	55 67.6 67. 6
5.83	54.4 44.2 59.2
3	64.1 46.2 68.4
883	53.4 43.8 58.3
[.87	63.8 45.1 67.9
2.87	53.3 43.8 58
8	63.7 45.5 67.9
2.88	52.9 42.7 57.4
8	64.8 45 68.6
285	64.5 52.9 70
E.84	% Semester 1 55.9 % Semester 2 44.6 % Total year 59.7

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rate of about 1% per year for semester to semester flow from credit to noncredit. The flow from credit to noncredit during the noncredit courses after taking credit courses. This rate has remained relatively stable over time, decreasing at an average The flow of students in City College of San Francisco is not unidirectional. About 5% ଦf all credit students enroll in entire next year has also declined, about 22% over this entire ten year period.

before they enroll. One of the goals of the integration of noncredit and credit into one department by discipline was to remove institutional barriers that previously often prevented students from getting accurate information about both credit and noncredit This may be the result c⁴ improved counseling so that students are placed in the correct program, noncredit or credit programs. This problem has been further corrected by the integration of all counseling into one department, so that information regarding program and course offerings is more equally available to counselors and students both.

Furthermore, reduction in the flow of students from credit to noncredit is due to the nature of the courses, specifically in fulfilled their general education requirements. Since these are now credit programs, they are no longer part of the statistics the areas of allied health and automotive, converted to credit. These departments often attract credit students who have showing movement from credit to noncredit.

Table 21
Enrolled Students Flow from Credit to Noncredit

F.94	070		2/11
2.64	191	£ 2	1534
.63	1546	110	2147
2.33	1514	1353	2195
F.32	1699	1418	2439
25.5	1432	1444	2219
5	1553	1323	2301
192	1414	1086	2045
8	1455	1200	2208
85	1389	1297	2151
2	1471	1294	2287
883	1281	1221	2025
8	1383	1182	2141
8	1240	1280	2024
[.87	1298	1117	2019
2.87	1383	1168	2036
F.86	1404	1302	2262
2,86	1406	1386	2266
8	1405	1286	2211
2,82	1309	1426	2183
<u>8</u>	1420	1235	2210
	Semester 1 1420	Semester 2 1235	Total year

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Š
Teple
5

Fercent of Credit Enrolled Students Who How from Credit to Noncredit as a Percent of Credit Students E'84 S'85 E'85 S'36 E'86 S'87 E'87 S'88 E'88 S'89 E'89 S'90 E'90 S'91 E'91 S'92 E'92 S'93 E'93 S'94 % Semester 1 5,9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.4 4.5 4.1 5.1 4.8 5.2 3.9 3.3 % Semester 2 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 4 3.4 3.8 4.1 4.3 4.3 3.7 2.7 n/o % Total year 9.2 10.7 9.1 8.8 9 7.7 7.5 7.7 7 7.6 7 7.3 6.3 6.6 6.3 7.3 7 7.2 5.2 n/o		3	ā
Fercent of Credit Enrolled Students Who Flow from Credit to Noncredit as a Percent of Credit Students 324 5.85 E85 5.86 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.4 4.5 4.1 5.1 4.8 5.2 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9		70.3	3.9 3.3 2.7 n/o 5.2 n/o
Fercent of Credit Enrolled Students Who Flow from Credit to Noncredit 38 5:55 E'85 S'88 E'88 S'89 E'89 S'90 E'90 S'91 5.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.5 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 4 13 6 7 7.3 6 9.2 10.7 9.1 8.8 9 7.7 7.5 7.7 7 7.6 7 7.3 6	opto	21.7	2 - 2
Fercent of Credit Enrolled Students Who Flow from Credit to Noncredit 38 5:55 E'85 S'88 E'88 S'89 E'89 S'90 E'90 S'91 5.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.5 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 4 13 6 7 7.3 6 9.2 10.7 9.1 8.8 9 7.7 7.5 7.7 7 7.6 7 7.3 6	Stude	10.0	4.8
Fercent of Credit Enrolled Students Who Flow from Credit to Noncredit 38 5:55 E'85 S'88 E'88 S'89 E'89 S'90 E'90 S'91 5.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.5 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 4 13 6 7 7.3 6 9.2 10.7 9.1 8.8 9 7.7 7.5 7.7 7 7.6 7 7.3 6	Credit	6.5	- ~ ~
Fercent of Credit Enrolled Students Who Flow from Credit to Noncredit 38 5:55 E'85 S'88 E'88 S'89 E'89 S'90 E'90 S'91 5.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.5 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 4 13 6 7 7.3 6 9.2 10.7 9.1 8.8 9 7.7 7.5 7.7 7 7.6 7 7.3 6	ent of	6.6	
Fercent of Credit Enrolled Students Who Flow from Credit to Noncredit 38 5:55 E'85 S'88 E'88 S'89 E'89 S'90 E'90 S'91 5.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 4.9 4.5 4.8 4.5 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 4 13 6 7 7.3 6 9.2 10.7 9.1 8.8 9 7.7 7.5 7.7 7 7.6 7 7.3 6	a Perc	5.5	2, 80, 40
Tercent of Credit Enfolled Students Who Flow from Credit to Noncres 38 5:85 5:86 5:87 5:88 6:48 5:89 6:48 6:48 6:48 6:48 6:48 6:48 6:48 6:48	dit as	16.5	4 4 W
Telcent of Credit Enfolled Students Who How from Credit to 1.38 S.35 E.36 S.37 E.37 S.38 E.38 S.39 E.39 S.30 S.3 S.4 S.5 S.6 S.2 4.8 4.4 S 4.4 4.9 4.5 S.1 7 S.3 S.4 S.2 4.4 4.2 4.6 4.3 4.2 4.3 4.2 9.2 10.7 9.1 8.8 9 7.7 7.5 7.5 7.7 7 7.6 7	Voncre		∞ ∽
Tercent of Credit Enfolled Students Who Flow fig. 2.84 S.85 E.85 S.86 E.86 S.87 E.87 S.88 E.88 S.89 S.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 9.2 10.7 9.1 8.8 9 7.7 7.5 7.2 7.7 7	± ≎		5.2
Tercent of Credit Enfolled Students Who Flow fig. 2.84 S.85 E.85 S.86 E.86 S.87 E.87 S.88 E.88 S.89 S.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 4.4 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 4.2 9.2 10.7 9.1 8.8 9 7.7 7.5 7.2 7.7 7	n Crec		~ ~ ~ ~
Tercent of Credit Enrolled Students Who F 34 S.85 E.85 S.86 E.86 S.87 E.82 S.88 E.88 5.9 6.4 5.8 5.5 5.6 5.2 4.8 4.4 5 5.1 7 5.3 5.4 5.2 4.4 4.2 4.6 4.3 9.2 10.7 9.1 8.8 9 7.7 7.5 7.2 7.7	-		
784 S'85 E'85 S'86 E'86 S'87 E'87 S'87 E'87 S'97 E'87 S'97 S'97 S'97 S'97 S'97 S'97 S'97 S'9	Mano ±		~~
784 S'85 E'85 S'86 E'86 S'87 E'87 S'87 E'87 S'97 E'87 S'97 S'97 S'97 S'97 S'97 S'97 S'97 S'9	dents 1		
Tercent of credit Enfold Enfold Enfold Enfold Enfold England E			4.8 4.2 7.5
284 S.85 E3 5.9 6.4 5.1 7 9.2 10.7	FULONE		5.2 4.4 7.7
284 S.85 E3 5.9 6.4 5.1 7 9.2 10.7	Credit		
284 S.85 E3 5.9 6.4 5.1 7 9.2 10.7) (i		
	1		5.8 5.3 9.1
5.9 5.1 9.2			6.4 7 10.7
E. Semester 1 % Semester 2 % total year			5.9 5.1 9.2
		ដា	% Semester 1 % Semester 2 % Total year

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The actual percentage of of credit students flowing to noncredit has increased. This is because the size of the noncredit program has decreased faster than the drop in the number of students moving from credit to noncredit. This cohort now accounts for almost 5% of the total noncredit enrollment.

Table 22

Percent of Noncredit Enrolled Students Who Flow from Credit to Noncredit as a Percent of Noncredit Students

F34	2.9 2.7 2.1 n/a 3.9 n/a
2.34	328
<u>8</u>	2.8 2.7 5.2
23	3.5 3.2 5.2
E.32	4.1 3.4 5.8
25.7	3.1 3.2 4.9
E.3	3.1 2.6 4.6
18.2	2.7 2.1 3.9
8	2.8 2.3 4.3
2.30	2.6 2.4 4
<u>8</u>	2.8 2.5 4.4
2.88	2.4 2.3 3.8
88	2.7 2.3 4.2
883	2.5 2.6 4
78.3	2.5 2.2 4.1
2.87	2.7 2.2 3.9
8	2.5 4.4
98.5	2.7 2.6 4.3
F.85	2.8 2.6 4.5
28	2.6 2.9 4.4
\$	2.9 2.6 4.6
u.i	% Semester 1 % Semester 2 % Total year

In conclusion, examining the pattern of credit student enrollment over the past ten years represents a period of improved entire year. Overall there has been an increase in the rate of persistence between semesters from 20% to 33% for the entire ten-year period. The rate for persistence for both the first and second semester has increased from 21% to 28%. Therefore, overall, the institution has been substantially more successful in improving persistence to the first semesters although less service to students as evidenced by an overall increase in the level of persistence from semester to semester and for the

Table 23

Enrolled Students Flow from Credit to Credit or Noncredit

E.93 S.94 E.94	1 21124 18407 20530	5 15704 15203 n/a	3 22196 19381 n/a
F.92 S.93	2411 19718	6860 16115	3583 20788
2.37	20901 22	16768 16	27279 23
153	23202	17248	24503
16.5 06.3	10422 19017	15446 15723	1896 20577
06.3	17593 20	14705 15	19275 21
88	19516	14504	21029
283	16410	13581	17998
8	18327	13478	19663
2.88	15529	13006	17110
E.87	17663	12676	18872
2.87	19737	12225	16126
58.3	16627	12200	17862
286	14317	11805	15732
33	16353	11690	17414
283	13773	11614	15123
F.8 4	Semester 1 14094	Semester 2 11457	Total year 15162

<u></u>

Percent of Noncredit Enrolled Students. Who Flow from Credit to Noncredit or Credit as a Percent of all Enrolled Students

8 1	Semester 1 19.9 Semester 2 16.1 Total year 21.4
2.85	20.1
證	22.6 16.2 24.1
58	18.6 15.3 20.5
88	22.2 16.3 23.8
283	25.7 15.9 21
2	23.5 16.9 25.2
25 25 25 25 25 25 25 25 25 25 25 25 25 2	20.3
22	23.6 17.4 25.4
88	20.1 16.7 22.1
2	24.2 18 26.1
230	21.3 17.8 23.4
8	25.5 19.3 27.4
15	23.1 19.1 25
53	28.1 20.9 29.7
25.3	26.6 21.3 28.3
25	30.6 23 32.2
283	27.4 22.4 28.9
23	30.5 22.7 32.1
76.5	27.3 22.6 28.8
<u>3</u>	32.8

FLOW OF NONCREDIT AND CREDIT ENROLLED STUDENTS

This section examines the enrollment pattern of all students, both credit and noncredit students going to both credit and noncredit programs. Persistence to the next semester peaked for the fall 1992 cohort of students; 64% persis ed to the next semester and 68% persisted for the entire year, falling only 7% points short of the ideal.

The ten year improvement rate for first semester persistence is 17% or 1.7% average annual rate of increase. For first and second semester persistence the improvement is slightly less, 13% or an average annual rate of increase of 1.3%.

Table 25 - Enrolled Students Flow from Credit and Noncredit

5	38299	D/U	b/u
2.34	34431	28677	39408
193	43849	31802	46435
2.67	42678	33369	45461
F.92	46999	35836	50039
76.5	43775	35733	46962
F.91	49561	36492	53146
2.31	45674	36890	49517
8	49027	37433	52971
05.5	43556	36143	47898
88	47658	35349	51757
2.83	42152	34361	46604
23	46124	34059	49979
%. %.	39646	32682	43911
E.87	44066	32457	47860
78.5	39126	32086	43192
88	42726	31433	46532
88.7	37747	31014	42181
F.85	42100	30392	46002
2.85	35576	29671	39883
F.84	Semester 1 38311	Semester 2 29150	Total year 41994

Credit and Noncredit to Credit and Noncredit as a Percent of all Enrolled Students Percent of Noncredit and Credit Enrolled Students Who Flow from Table 26

F5.3	51.1 61.1 42.6 n/a 58.5 n/a
2. 2.	63.4 46 67.1
2.6.3	59.3 46.4 63.2
F.37	64.2 49 68.4
25.3	55.6 45.4 59.7
3	44 .2 64 .3
83	55.4 44.8 60.1
3	61.3 46.8 66.2
06.5	52.8 43.8 58
88	59.1 43.8 64.1
8	51.7 42.1 57.2
8	59.5 43.9 64.4
288	51.7 42.6 57.3
E.87	58.7 43.3 63.8
283	50.9 41.8 56.2
8	57 42 62.1
2.86	49.1 40.3 54.8
盟	58.3 42.1 63.7
25 28 28	51.9 43.3 58.1
蓋	54 41.1 59.2
	Semester 1 Semester 2 Total year

FLOW OF NONCREDIT STUDENT ATTENDERS

The following sections all discuss the attendance pattern of students rather than students' enrollment patterns.

over the last ten years, a 12% increase or a little more than a 1% increase per year. The percent of credit students who have The percentage of credit students who attended a noncredit course the prior semester increased from 6.5% to 7.3% attended a noncredit course in the previous year slightly decreased form 9.8% to 9.3%.

noncredit state their intention of enrolling in credit as compared to those that actually finish the class. The cause of the failure year. Unfortunately this is lower than the 12.9% rate for those who enrolled. Therefore, a higher percentage of students from to complete the class should be explored because intervention could possibly help to remove the differential between intend The peak was once again in spring of 1992 with 10% of credit students having attended a noncredit class in the last

Table 27

Student Attenders Flow from Noncredit to Credit

F.94	1491	n/a	n/a
<u>8</u>	1568	1848	2224
3	1539	1672	2273
263	1808	1930	2457
9	1683	1904	2556
26.7	2110	2173	2852
뎚	1901	2365	3060
ឆ្ល	2470	2893	3368
8	1667	2524	3161
S. S.	1643	1923	2459
8	1586	1807	2456
88	1633	1819	2414
23	1421	1792	2343
X.	1481	1652	2153
E.87	1429	1645	2253
2.87	1629	1805	2364
£.8	1562	1608	2378
2.38	1515	1726	2255
2	1363	1538	2131
3	1389	1601	2035
<u>8</u>	Semester 1 1311	Semester 2 1445	Fotal year 2014

The level of first semester persistence for noncredit students attending noncredit courses the next semester increased from 51% to 58% in the last ten years, a 13% increase. The level of persistence for noncredit students attending noncredit courses in the next year also increased, from 56% to 61%, nearly a 10 % improvement.

noncredit student actually attends a course, they are more likely to attend, not just enroll the next semester. Ten years ago The persistence of attenders from noncredit is substantially higher than for enrollers. This indicates that once a while 36% of the enrollers enrolled the next semester, 51% of the attenders actually attended the course. Today that

Ten years ago 91% of the noncredit students who enrolled, attended their course, today that level is 97%. Therefore, we have not only improved the level of persistence of noncredit students, but the rate at which students attend a course after they

	P.,04	3	4465	3	D/u	9/0
	2.04	1	18256		3351	18377
	F.93		21593		14825	22954
	293		19865	į	28/0	21744
	F.32		22465	9	97191	24317
	25.5		20579			
2	គ្ន		22403	16123		24413 2
	193		21519	16699		24093
	83		08 C2			27699
	2.3	137.00	/0577	18313		25183
	8	7,646	17767	17736		8///2
	2,83		3	17972		74302
	2	25139		17432	17501	(76)
	88	21252	1	17501	73084	1000
	<u> </u>	23898		1/142	26292	
		21644		58 /-	24373	•
25 28		24650		08801	27009	
30.0	g A	21283	17394	F3C / 1	24107	
2		23447	16454	5	25973	
283		19549	16173	•	22334	
¥8.	1	Semester 1 22310	Semester 2 15515		Total year 24573	

years accounting for 37% of the total college attenders today and ten years ago. The same holds true for first and second First semester persistence of noncredit students in the institution has remained relatively constant over the last ten semester persistence of noncredit students in the institution, holding steady at 40% over the last decade.

18377

24317 21744 22954

These statistics hide the many changes that have occurred in the institution regarding persistence of noncredit students over time. The reason is that there has been movement in both directions and these movements have offset each other,



7

Table 29

Student Attenders Flow from Noncredit to Credit and Noncredit

5	5823	D/U	D/u
2.34	19367	5102	19750
£63	22496	16122	23969
2.63	21087	.17315	23068
£.37	23446	17526	25418
2.37	21981	17878	24038
뎚	23646	17920	25867
5	23299	18718	26088
8	26441	19220	29007
23	23528	19797	26549
8	26226	19121	28949
28	23252	19364	26346
2	26093	18799	28684
2,88	22298	18794	25206
E.87	24852	18421	27447
2.87	22844	19092	. 25806
88	25660	18229	28190
8 2	22378	18661	25393
F.85	24373	17641	27052
285	20590	17349	23569
78 2	Semester 1 23178	Semester 2 16657	Total vear 25617

FLOW OF CREDIT STUDENT ATTENDERS

Over the last decade the level of first semester persistence by credit student attenders to credit programs has risen fror 62% to 66%, an increase of 6.5%. During this same time period, the level of first and second semester persistence for these students has risen from 67% to 72%, an increase of 7.5%.

over the last decade, an increase of 9%. The level of first and second semester credit student enrollers changed from 60% comparable persistence rates. The level of first semester persistence by credit student enrollers changed from 56% to 61% This is a very successful level, only 3% below the ideal level of 75%. This is also substantially higher than the to 64%, an increase of 7%.

Table 30

Student Attenders Flow from Credit to Credit

			•
5	17256	D/u	D/u
2.34	14056	12669	15661
퓚	16529	11876	17801
2.93	14807	12213	16143
F.32	17183	12680	18620
2.67	15730	12460	17218
F.9	17566	12922	19133
2.31	14122	11695	15768
8	15357	11488	16890
85	15831	10709	14511
E.83	14507	10598	16000
88.5	11875	9653	13316
8	13480	9765	14894
883	11550	9194	12937
F.87	13441	9421	14626
787	11113	9112	12454
98	13141	9169	14332
2.86	11023		12270 . 14332
83	.12863	8977.	13948
233	10603	8649	11780
<u>\$</u>	12706	8815	13741
	Semester 1 12706	Semesler 2 8815	Total year

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after completing a credit course in the last decade. In 1984 5.1% of the credit student attenders took a noncredit course the attenders. There has been a 10% drop in the rate at which credit students attend noncredit programs within one semester As with the credit student enrollers the level of student flow from credit to noncredit has declined for credit student next semester. That level has been reduced for the reasons discussed above to 4.6%.

ago the level was 8% and now it is 6.5%, a substantial decline of 19%. It is not clear if all of this drop can be explained by the conversion of many vocational programs to credit or whether some other factor has entered into the decision making process The same pattern holds for credit student attenders taking a noncredit course one or two semesters later. Ten years of credit attenders.

Table 31 Student Attenders Flow from Credit to Noncredit

76.	148	n/a	0/0
2.34	830	140	933
£.63	1150	823	1625
25.	1032	1026	1575
76.3	1293	1007	1867
26.5	1058	1081	1672
F.31	1137	186	1718
153	266	790	1485
3	1076	870	1643
2.30	1003	971	1601
88	1032	188	1679
2,83	939	890	1482
23	1001	88	1595
8	900	944	1489
E.87	1002	980	1553
2.87	1101	931	1640
8	1109	1035	1808
2,38	1071	1096	1771
8	966	1016	1678
283	848	1034	1584
F.84	1043	200	1651
	Semester 1	Semester 2	Total year

Unlike the noncredit attenders where the flow of all noncredit throughout the institution hid the more subtle patterns, the £mong credit student attenders in both the credit and noncredit programs increased in the last decade from 59% to 68%, a level of change among the credit attenders is not hidden by the summary Table 32. The level of first semester persisters change of 15%. For first and second semester persisters the level changed from 70% to 73%, a change of 5% in the last

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Table 32 Student Attenders Flow from Credit to Credit and Noncredit

F.94	17298	D/u	D/u
5.34	14443	12736	15969
53	16932	12300	18244
2.33	15256	12720	15666
	17708	13229	19219
2.32	16196	13045	17789
F.31	18034	13439	19660
15.5	14590	12120	16288
89	15831	11955	17424
2.30	13405	11272	15156
88	15012	11189	16614
2.38	12357	10230	13971
33	13918	10294	15438
88.7	11991	9775	13546
[37]	13910	9920	15188
2.87	11708	9701	13169
F.86	13641	. 1816	. 14959
2.86	11589	. 9557	13039
283	13926	9296 9584 9557	14517 13039
285	11109	9536	12459
F.88	13160	9357	14308
	Semester 1 13160	Semester 2 9357	Total year 14308

FLOW OF CREDIT AND NONCREDIT ATTENDERS

semester and second semester student attenders. Both groups improved by 9%, with first-semesters attenders increasing The rate of persistence throughout the institution improved over the last decade for both first semester and first their persistence from 56% to 63% and first and second semester attenders increasing from 62% to 67%.

Table 33 Student Attenders Flow from Credit and Noncredit

₹1	2347		6
		b/u 9	7 n/a
2.34	32914	17146	34767
F.33	38430	27689	41162
2.93	35366	29184	38675
F.37	40033	29888	43442
2.32	37204	30082	40770
5	40524	30422	40770
2.51	36998	30078	41397
8	41344	30454	45431
2,3	36139	30352	40813
88	40355	29597	44599
8	34931	28979	39544
88	39231	28448	4326}
28	33601	27939	37981
1.87	37919	27703	41731
2.87	33754	28094	38077
8	38463	27403	42238
28.5	33226	27561	37599
83	36940	26636	40778
282	30981	26104	35236
25	35548	25416	39066
	emester 1	iemester 2 25416	
	Seme	Seme	Total year

24

MAJOR FINDINGS

Of the 123,000 who enrolled in at least one course at City College of San Francisco during the last five years, 23%, or 50% of the credit ESL program. Twenty-one percent, 4800, of all noncredit basic skills enrolled in credit courses during this nearly one-quarter, attended a non-credit program. Eighty-eight hundred came from ESL non-credit programs, making up same period, as did 17,000 or 24% of those who attended non-credit vocational programs.

There was a 54% increase in the number of students moving from non-credit to credit annually during the ten years of the study. This is despite a 22% decrease in the number of non-credit students being served. In addition, between 66% to 73% of these students persist in credit during the next semester.

The flow of students at CCSF is not unidirectional. In recent years, about 7% of all credit students enroll in noncredit courses within 2 semesters. However, this is down from 10% ten years ago. The main reason for this decline is the conversion of many vocational programs from non-credit to credit.

Furthermore, in the last 10 years the number of students taking advantage of both non-credit and credit programmatic offerings simultaneously has increased 20%, from 1500 to 1800

CONCLUSION

This report has discussed in detail the flow of students throughout City College of San Francisco for the last decade. enrollment and attendance. Student flow patterns from noncredit programs into credit, noncredit and to both noncredit and Students have been examined both as enrollers and as attenders. The pattern of the enrollment of all students has been credit programs have been compared to the patterns of students flowing from credit to noncredit, credit and credit to both credit and noncredit. Finally, the pattern of all students either enrolling or attending City College noncredit and credit compared to the pattern of attendance of all students. Furthermore, students have been analyzed by programmatic programs simultaneously has been studied.

increased. All of these trends indicate that barriers to student enrollment and attendance in programs at City College of San credit and noncredit programs, as well as, the conversion of courses from noncredit to credit. Persistence levels have been The result is an extremely positive report that supports the change to a departmental based structure that integrates improved almost across the board. Participation in credit programs by noncredit students has risen, while participation of credit students in noncredit has decreased. Simultaneous participation in both credit and noncredit programs has also

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Francisco have been reduced and that student needs are being better met.

complete a course in credit to the number who enroll has actually declined in the last ten years. This is worthy of further study Nevertheless, areas of concern have surfaced. The ratio between the number of students who actually attend and to explain the causes of this decline.

instructional course offerings. However, to reach cap this year, a 4% growth will be necessary, and, therefore, close scrutiny Decline in enrollment also bears watching. Most of this decline is due to planned course conversion and reduction in of enrollment and attendance is in order.

improved for one and not the other, so that intervention methods can be developed to keep students for their third semester, if The institution improved its rates for inter-semester persistence dramatically in the last decade. However, the rates for persistence past that first semester did not experience a similar improvement. It is necessary to discover why the rates warranted.

And finally, the drop in the rate of movement from credit to noncredit needs to be explored at the department level to make sure that the drop is a function of course conversion and not some other hidden factor.

Overall, the integration of credit and noncredit into departments and the conversion of many noncredit courses to credit has been of benefit to both the institution and the students.